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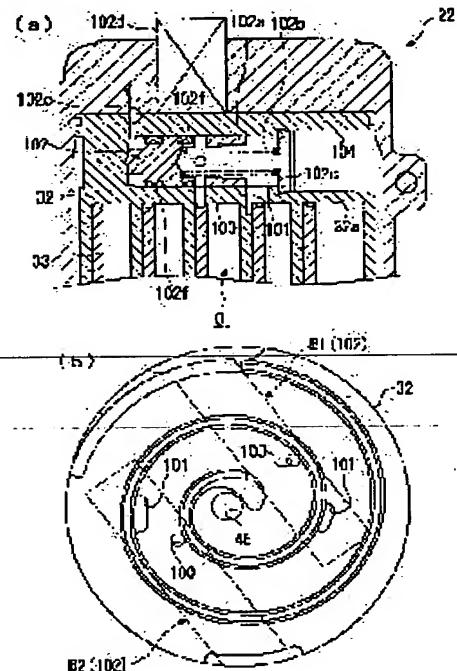
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(54) CO₂ REFRIGERATION CYCLE AND METHOD FOR CONTROLLING OPERATION OF COMPRESSOR OF THE SAME

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a CO₂ refrigeration cycle and a method of controlling the operation of a compressor of the CO₂ refrigeration cycle where pressure rise of CO₂ refrigerant in a high pressure refrigerant path region accompanying rise in the rotational speed of the compressor, temperature of a gas cooler or the like is suppressed, and the circulation flow rate of the refrigerant is prevented from becoming excessively high.

SOLUTION: The compressor 22 is provided with a first bypass port 100, a second bypass port 101 and a bypass port opening/closing mechanism 102. The bypass port opening/closing means 102 controls the first bypass port 100 and the second bypass port 101, in such a manner as to open and close the ports on the basis of the conditions of the rotational speed of the compressor 22 and the pressure of the CO₂ refrigerant flowing in the high-pressure refrigerant flow path region. Thus, the pressure of the CO₂ refrigerant flowing in the high-pressure refrigerant flow path region is controlled by a combination of the bypass port opening/closing mechanism 102 and a high-pressure control valve.



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